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TITLE: COMPOSITE MATERIAL HAVING BIODEGRADABILITY
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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To obtain a biodegradable composite material sheet having a sufficient mechanical strength on employment by homogeneously mixing a cellulose pulp slurry with a biodegradable thermoplastic polyester resin, producing paper from the mixture, and subsequently thermally treating the paper to fuse the resin to the pulp.

CONSTITUTION: 100 pts.wt. of a cellulose pulp such as bleached craft pulp of broad-leaved trees is mixed with 10-50 pts.wt. of a biodegradable thermoplastic aliphatic polyester resin such as fibrous or powdery polybutylene succinate. The mixture slurry. is processed into a mixture paper sheet, and subsequently treated with a 200°C hot plate to produce the biodegradable sheet-like composite material wherein the aliphatic polyester resin is thermally fused to the cellulose pulp.

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